

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P748340

Luminaire Tested: LD4D45BD010-EU4DR3040509030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR3040509030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4447.6 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

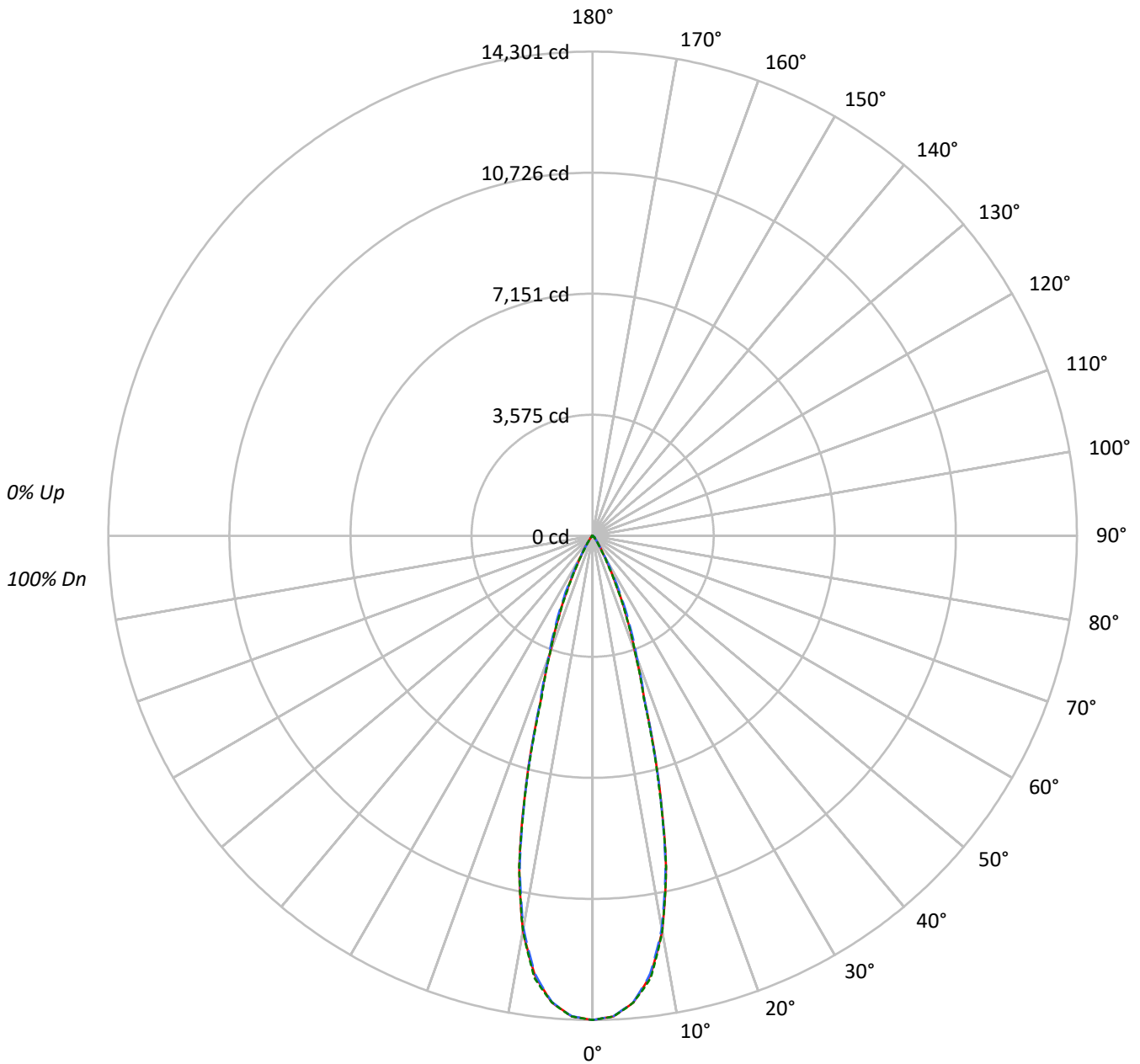
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P748340
CATALOG NUMBER: LD4D45BD010-EU4DR3040509030-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P748340

CATALOG NUMBER: LD4D45BD010-EU4DR3040509030-4LBS1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1094678	1094678	1094678
5°	1063254	1062009	1063307
10°	920939	914441	920721
15°	600864	597639	594636
20°	298780	309996	298381
25°	150510	169723	147418
30°	60261	65661	52501
35°	27949	26771	22435
40°	12070	13399	11361
45°	8508	10565	8584
50°	2929	7693	3096
55°	1681	3189	1775
60°	1179	1393	1179
65°	761	761	761
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10565 cd/sqm



TEST NUMBER: P748340

CATALOG NUMBER: LD4D45BD010-EU4DR3040509030-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1257.6	28.3
10°-20°	2025.4	45.5
20°-30°	875.2	19.7
30°-40°	199.5	4.5
40°-50°	68.5	1.5
50°-60°	16.7	0.4
60°-70°	4.3	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4158.2	93.5
0°-40°	4357.7	98.0
0°-60°	4442.9	99.9
0°-90°	4447.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4447.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14301	14301	14301	14301	14301	
5°	13838	13825	13822	13851	13839	1259
15°	7582	7491	7542	7517	7504	2030
25°	1782	1850	2010	1802	1746	853
35°	299	305	286	284	240	203
45°	79	98	98	98	79	56
55°	13	13	24	14	13	12
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P748340

CATALOG NUMBER: LD4D45BD010-EU4DR3040509030-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14301.4	14301.4	14301.4	14301.4	14301.4
2.5°	14206.6	14196.8	14202.4	14209.4	14212.2
5°	13838.0	13824.6	13821.8	13850.6	13838.7
7.5°	13094.4	13075.4	13046.7	13112.0	13173.0
10°	11848.8	11827.7	11765.2	11796.1	11846.0
12.5°	10009.9	9941.7	9940.3	10038.6	10025.3
15°	7582.5	7491.2	7541.8	7517.2	7503.9
17.5°	5099.0	5063.9	5131.3	5111.0	5023.2
20°	3668.0	3677.2	3805.7	3741.1	3663.1
22.5°	2676.6	2709.6	2862.0	2695.6	2634.5
25°	1782.1	1849.5	2009.6	1802.4	1745.5
27.5°	1096.1	1127.0	1289.1	1082.0	1051.1
30°	681.8	666.3	742.9	637.6	594.0
32.5°	447.3	427.6	452.2	405.8	370.7
35°	299.1	305.4	286.5	284.4	240.1
37.5°	186.8	214.9	189.6	202.2	154.5
40°	120.8	155.9	134.1	148.2	113.7
42.5°	99.0	120.1	110.2	117.3	101.1
45°	78.6	97.6	97.6	97.6	79.3
47.5°	43.5	65.3	83.6	66.7	46.3
50°	24.6	33.0	64.6	34.4	26.0
52.5°	16.9	19.0	44.2	19.7	17.6
55°	12.6	13.3	23.9	14.0	13.3
57.5°	9.8	10.5	12.6	10.5	9.8
60°	7.7	7.7	9.1	8.4	7.7
62.5°	5.6	5.6	6.3	5.6	5.6
65°	4.2	4.2	4.2	4.2	4.2
67.5°	2.1	2.8	2.8	2.8	2.8
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)